

II. CLAIM AMENDMENTS

1. (Currently Amended) A description means for contents of motion picture, said means comprising of:

(a) means for setting a reference plane by using a zone description and a camera model;

(b) means for describing each object on said motion picture by position on said reference plane and predefined type of actions; and

(c) means for describing each scene by using said means for describing each object.

2. (Currently Amended) A search means for contents of motion picture, said means comprising of:

(a) means for setting a reference plane by using a zone description and a camera model;

(b) means for describing each object on said motion picture by position on said reference plane and predefined type of actions;

(c) means for describing each scene by using said means for describing each object; and

- (d) means for searching motion picture by using said means for describing each object or said means for describing each scene.

3. (Currently Amended) A description method for motion picture, said method comprising the steps of:

- (a) determining a reference plane by using a zone description and a camera model, wherein the reference plane which represents information of object positions included in said motion picture;
- (b) representing changes over time of each object on said reference plane as a trajectory;
- (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each object so as to assign actions of each object as each behavioral section; and
- (d) defining each scene by plural objects.

4. (Currently Amended) A search method for motion picture, said method comprising the steps of:

- (a) setting a reference plane by using a zone description and a camera model, wherein the reference plane which represents information of object positions included in said motion picture;

- (b) representing changes over time of each object on said reference plane as a trajectory;
- (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each object so as to assign actions of each object as each behavioral section;
- (d) defining each scene by plural objects; and
- (e) searching a specific scene by using said actions of each object or said scene.

5. (Currently Amended) A description method for motion picture, said method comprising the steps of:

- (a) determining a reference plane from said motion picture by using a zone description and a camera model;
- (b) cutting a region map, an object trajectory ID, an action ID and a camera parameter from said motion picture;
- (c) creating description of actions by each object from said region map, said object trajectory ID, said action ID and said camera parameter; and
- (d) creating description of scenes by using said description of actions by each object.

6. (Currently Amended) A search method for motion picture, said method comprising the steps of:

- (a) determining a reference plane from said motion picture by using a zone description and a camera model;
- (b) cutting a region map, an object trajectory ID, an action ID and a camera parameter from said motion picture;
- (c) creating description of actions by each object from said region map, said object trajectory ID, said action ID and said camera parameter;
- (d) creating description of scenes by using said description of actions by each object; and
- (e) searching a specific scene by using said description of actions by each object or said description of scenes.

7. (Previously Cancelled)

8. (Currently Amended) A computer readable storage medium which has recorded a program, the program having a computer execute the steps of:

recording management data for searching motion picture~~+~~;

recording data of description of actions by each object defined by position on a reference plane and predefined type of actions, the reference plane being set by using a zone description and a camera model; and

recording data of description of scenes defined by said data of description of actions.

9. (Currently Amended) A computer readable storage medium which has recorded a program, said program having a computer execute the steps of:

- (a) determining a reference plane set by using a zone description and a camera model, the reference plane which ~~represents~~ representing information of object positions included in said motion picture;
- (b) representing changes over time of each object on said reference plane as a trajectory;
- (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each object so as to assign actions of each object as each behavioral section; and
- (d) defining each scene by plural objects.

10. (Previously Presented) The description means of claim 1 wherein the reference plane comprises information on object positions independently of a camera movement.

11. (Previously Presented) The description means of claim 1 wherein the reference plane represents a ground for determining positions of objects in relation to an actual direction of motion of the object.

12. (Previously Presented) The search means of claim 2 wherein the reference plane comprises information on object positions independently of a camera movement.

13. (Previously Presented) The search means of claim 2 wherein the reference plane represents a ground for determining positions of objects in relation to an actual direction of motion of the object.

14. (Previously Presented) The description method of claim 3 wherein the reference plane further represents motion of objects independently of camera motion.

15. (Previously Presented) The description method of claim 3 wherein the reference plane further represents a ground for determining position and movement of objects in relation to an actual direction of motion of the object that is independent of a camera motion.

16. (Currently Amended) ~~the~~The search method of claim 4 wherein setting the reference plane further comprises setting a ground for determining position and movement of objects in relation to an actual direction of motion of the object that is independent of a camera motion.

17. (Previously Presented) The description method of claim 5 wherein determining the reference plane further comprises setting a ground for determining position and movement of objects in

relation to an actual direction of motion of the object that is independent of a camera motion.

18. (Currently Amended) ~~the~~The search method of claim 6 wherein determining the reference plane further comprises setting a ground for determining position and movement of objects in relation to an actual direction of motion of the object that is independent of a camera motion.

19. (Previously Presented) The computer readable storage medium of claim 9 wherein the reference plan further represents a ground for determining actual object position and movement included in the motion picture that is independent of a camera motion tracking the object position and movement.

20. (Currently Amended) A computer readable storage medium which has recorded a program, said program having a computer execute the steps of:

- (a) setting a reference plane by using a zone description and a camera model, the reference plane ~~which represents~~ representing information of object positions included in a motion picture;
- (b) representing changes over time of each object on said reference plane as a trajectory;
- (c) setting a description unit based on predefined type of actions of each object by using changes in shape of each

object so as to assign actions of each object as each behavioral section;

(d) defining each scene by plural objects; and

(e) searching a specific scene by using said actions of each object or said scene.